

Abstract Of the Disclosure

A fuel injector has a housing extending along a longitudinal axis between an inlet and an outlet. A seat assembly is disposed in a body proximate the outlet. The seat assembly includes a flow portion and a securement portion. The flow portion extends along the longitudinal axis between a first surface and an orifice disk retention surface at a first length. The flow portion has a seat orifice extending therethrough and an orifice disk coupled to the orifice disk retention surface so that the orifice plate is aligned in a fixed spatial axial orientation with respect to the flow portion. The securement portion extends along the longitudinal axis away from the orifice disk retention surface at a second length greater than the first length. A method of maintaining a fixed spatial axial orientation and dimensional symmetry of at least one of the seat and orifice disk in the body is disclosed.